

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-2 (Canceled).

Claim 3 (Currently Amended) ~~The circuit according to claim 1, A gain control circuit, comprising:~~

a transmission power amplifier which amplifies a transmission signal to a predetermined level;

an adjacent channel leak power ratio monitor which finds a ratio of a distortion element corresponding to adjacent channel leak power to a main element from an output signal of the transmission power amplifier, and outputs the found ratio as an ACPR monitor value;

a power supply control section which variably controls power supply to the transmission power amplifier with use of the ACPR monitor value supplied from the adjacent channel leak power ratio monitor;

a transmission signal level variable section which varies a level of the transmission signal by controlling a gain of a transmission signal path on the basis of a transmission level monitor value supplied from the adjacent channel leak power ratio monitor; and

wherein the adjacent channel leak power ratio monitor comprises: a squaring circuit which squares an output signal of the transmission power amplifier; a first band path filter which extracts a distortion element corresponding to the adjacent channel leak power from an output signal of the squaring circuit; a second band path filter which extracts an element corresponding to a main part of the output signal of the squaring circuit; and a subtracter which performs a subtraction process between an output of the first band path filter and an output of the second band path filter.

Claim 4 (Original) The circuit according to claim 3, wherein the squaring circuit includes a multi-plier which multiplies at least two signals together.

Claim 5 (Original) The circuit according to claim 3, wherein the squaring circuit includes a non-linear device having a second-order distortion coefficient.

Claims 6-7 (Canceled).

Claim 8 (Currently Amended) ~~The radio communication terminal according to claim 6, A radio communication terminal comprising a radio transmission section, wherein~~  
~~the radio transmission section comprising:~~  
~~a transmission power amplifier which amplifies a transmission signal to a~~  
~~predetermined level;~~  
~~an adjacent channel leak power ratio monitor which finds a ratio of a distortion~~  
~~element corresponding to adjacent channel leak power to a main element from an output~~  
~~signal of the transmission power amplifier, and outputs the found ratio as an ACPR monitor~~  
~~value;~~  
~~a power supply control section which variably controls power supply to the~~  
~~transmission power amplifier with use of the ACPR monitor value supplied the adjacent~~  
~~channel leak power ratio monitor;~~  
~~a transmission signal level variable section which varies a level of the transmission~~  
~~signal by controlling a gain of a transmission signal path on the basis of a transmission level~~  
~~monitor value supplied from the adjacent channel leak power ratio monitor; and~~

wherein the adjacent channel leak power ratio monitor comprises: a squaring circuit which squares an output signal of the transmission power amplifier; a first band path filter which extracts a distortion element corresponding to the adjacent channel leak power from an output signal of the squaring circuit; a second band path filter which extracts an element corresponding to a main part of the output signal of the squaring circuit; and a subtracter which performs a subtraction process between an output of the first band path filter and an output of the second band path filter.

Claim 9 (Original) The radio communication terminal according to claim 8, wherein the squaring circuit includes a multi-plier which multiplies at least two signals together.

Claim 10 (Original) The radio communication terminal according to claim 8, wherein the squaring circuit includes a non-linear device having a second-order distortion coefficient.